



Sparks Brain Preservation Monthly Update - March 2026

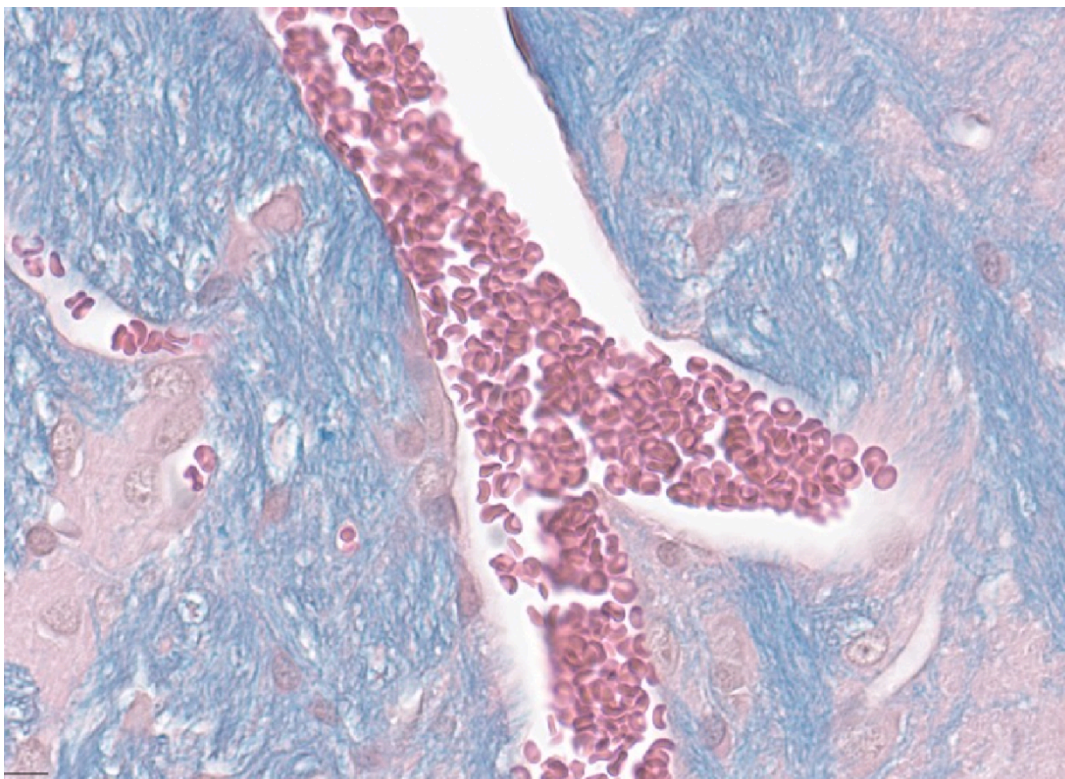
New Registered Clients This Month (Sign Ups and/or Memberships): 4

Week of March 2nd

We practiced our brain preservation techniques on four body donors this week.

Our preprint “Aldehyde-based cryopreservation of whole brains” was uploaded to the preprint server bioRxiv: <https://www.biorxiv.org/content/10.64898/2026.03.02.708967v1>

We have been analyzing papers and data pertaining to perfusion impairment in the brain following global cerebral ischemia. In a non-perfused rat brain from our ongoing studies, we found a nice example of red blood cell clogging of a vessel (also known as cruor in pathology literature), which you can see is not present in the whole vessel, but rather tends to fall to the dependent portions of it due to gravity (LH&E stained, imaged at 40x):



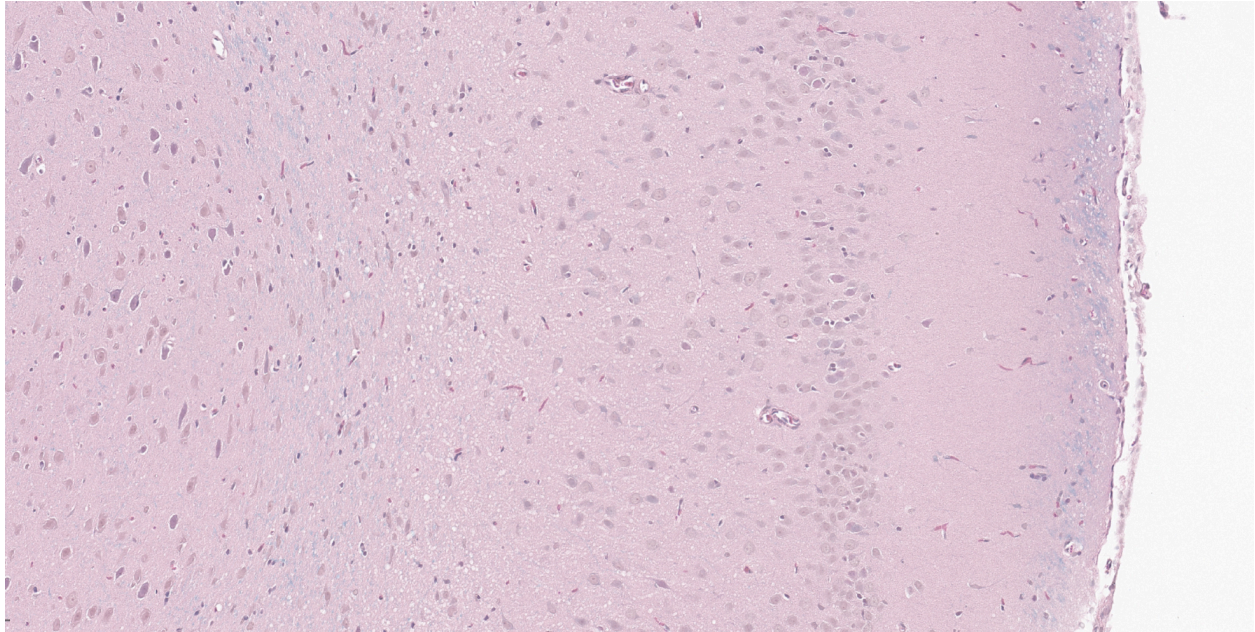
Week of March 9th

We practiced our brain preservation techniques on two body donors this week.

Week of March 16th

We practiced our brain preservation techniques on one donated dog this week.

We continue to analyze rat brain data generated from different types of preservation procedures. Here is a picture of part of an LH&E stained section from a rat whose brain was immersion fixed immediately after euthanasia. You can still see the laminar architecture of the cortex. For example, you can see that layer I is the cell-sparse zone at the right under the pia/meninges. Just deep to (i.e. to the left of) that is a dense band of cells, which is layer II/III.



Week of March 23rd

We practiced our brain preservation techniques on two body donors and two donated dogs this week. Here is an example image from one of our preserved dog brains, in which perfusion was performed through the aorta.

